

NAME: \_\_\_\_\_ Mr. Hoffman classwork

**Divisibility:** The ability of a whole # to divide evenly into another whole #. (no remainder). Tells you if a number is a **FACTOR** of another number.

**Example:** 10 is **DIVISIBLE** by 2, 5, 10

**You do →** 24 is **DIVISIBLE** by \_\_\_\_\_

**DIVISIBILITY RULES** for telling if a # can go into another # evenly.

a # is divisible by...	If the ... (test for divisibility)	Examples
<b>2</b>	one's place is a <u>         ,         ,         ,         , or         </u>	4 48      2,770
<b>5</b>		
<b>10</b>		
<b>3</b>		
<b>6</b>		
<b>4</b>		

Try It! (circle all that apply)

Which of these numbers is 5,435 divisible by?      2, 3, 4, 5, 6, 10

Name: \_\_\_\_\_ yellow 6

*tip:* find the sum of the digits first and write it!

## “Breakin’ The (Divisibility) Rules” **HOMEWORK**

### PART A

Put  
sum  
here  
↓

- You need 2 different color writing utensils for this cool H.W.
- Write “N” (for No) in 1 color, and “Y” (for Yes) in a different color.
- Use your divisibility rules on the back to help if you need.

Number	Divisible by?					
	2	3	4	5	6	10
39						
111						
807						
600						
11,000						
3,405						
36,423						
2600						
1,011						
2,350,000						
2,147						
1,105,020						
7,688						

**SELF-CHECK:** There are 33 Y’s in the chart above! Go check.

**PART B** Create a new 5 digit number that is divisible by 4 \_\_\_\_\_

**PART C** Circle the numbers that 6,777,000 is divisible by: 2, 3, 4, 5, 6, 10

**PART D** Create an 8 digit number that is divisible by 2, 3, 4, 5, 6, 10  
\_\_\_\_\_

**PART E (NOT optional).** Complete the Hoffkids 121 DIVISION CHALLENGE at least once. It is at ZONE 3 on Hoffkids.com on the right this time.